

## ABSTRACT OF THE DISCLOSURE

Disclosed is an apparatus controlling an operation of a motor and control method thereof enabling to prevent a driving force of the motor from being reduced and actuate the motor for hours stably when a washing machine is operated for hours. The present invention includes the steps of detecting a phase voltage value and a phase current value applied to the motor between forward and backward revolution sections of the motor, calculating a phase resistance value based on the detected phase voltage and current values, and controlling the operation of the motor by controlling a voltage applied to the motor in accordance with the calculated phase resistance value.

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